



Nominal output level - 35 ~ 0 dBv
Frequency response • Direct: 10 Hz ~ 60 kHz (+1, -3 dB) Delay: 20Hz ~ 16kHz (+1, -3dB) Residual noise • -90dBv (IHF-A) Delay time • 1 ~ 1,024m seconds
Delay time range • 2, 8, 32, 128, 512m seconds Modulation rate ● 0.1 Hz ~ 10 Hz Distortion • Direct: 0.05%, Delay: 0.1% FX70C Input • Impedance 1M ohms Nominal input level – 10 dBv Maximum input level 8 dBv Output • Impedance 300 ohms Optimum load impedance 10k ohms or greater Nominal output level - 10 dBv Maximum output level 8dBv Frequency response • 10 Hz – 50 kHz
Residual noise • –82 dBv (IHF-A, input max.)
Comp: Attack time • 0.2 – 40 m seconds Release time • 40 m seconds ~ 1.5 seconds Threshold input level \bullet - 42 ~ 6 dBv Ratio \bullet 2:1 ~ 20:1 Maximum compression ● 32 dB
Gate: Decay time ● 5 m seconds ~ 1.5 seconds EX75N Input • Impedance 1M ohms Nominal input level - 10dBv Maximum input level 8dBv Output • Impedance 300 ohms Optimum load impedance 10k ohms or greater Nominal output level - 10 dBv Maximum output level 8 dBv
Frequency response ● 10 Hz ~ 30 kHz Residual noise • -92 dBv (IHF-A, ratio 1:1)
Threshold level • -50~10 dBv Ratio ● 1:1~1:8 Attack time . 0.3m seconds or less Decay time • 0.11 ~ 2 seconds

Lowpass filter • 200 Hz ~ 5 kHz (6 dB/oct) Input • Impedance 470k ohms Nominal input level −35 ~ 0 dBv

Output • Impedance 2k ohms Output • Impedance 2k ohms
Optimum load impedance 10k ohms or greater
Nominal output level – 35 – 0 dBv
Frequency response • Direct: 10 Hz – 60 kHz (+ 1, – 3 dB)
High pass: 1 – 5 kHz (Harmonics effect)
Residual noise • – 79 dBv (IHF-A, mix volume max.)
– 108 dBv (IHF-A, mix volume min.)
Filter • 1 – 5 kHz (– 12 dB/oct) Harmonics generator ● Half wave clip type Distortion ● Direct: 0.01% FX85P Input • Impedance 1M ohms Input • Impedance 1 M onms
Nominal input level – 10dBv
Maximum input level e dBv
Output • Impedance 300 obras
Optimum load impedance 10k ohms or greater
Nominal output level – 10dBv
Maximum oviput level 8dBv
S/N • 85dB [Flat] Frequency response • 10Hz - 30kHz

Residual noise • -95dBy (IHF-A, FLAT)

EO • Low: 40Hz (Fixed)/±14dB/Q=0.5

Mid low: 60Hz - 5kHz/±18dB/Q=1 ~ 6 Mid hi: $100 \text{ Hz} \sim 10 \text{ kHz}/\pm 18 \text{ dB/Q} = 1 \sim 6$ Hi: $12 \text{kHz} (\text{Fixed}) / \pm 14 \text{dB/Q} = 0.5$ EX65D, EX70C, EX75N, EX80E, EX85P Dimensions • 210(W) × 44(H) × 158(D) mm

EX SERIES SPECIFICATIONS

EX65D

Input ● Impedance 470k ohms

Output • Impedance 2k ohms

Nominal input level -35 ~ 0 dBv

Optimum load impedance 10k ohms or greater

The AKAI EX Series consists of compact effectors that are perfect for all types of multi-track mixing. They are also excellent for use in sound reinforcement. The standard input/output level and optimum load impedance for all models is $-10\,\mathrm{dB}/10\,\mathrm{k}$ ohms or greater; the same as the effect send/receive level for general mixers. So, it is easy to set the level for effect sending and receiving during the mixing process. Of course, the effects can be turned on and off using foot switches.

EX65D DIGITAL DELAY

The EX65D is a full function digital delay unit with Feedback, Range, Rate, Width, and Delay level controls. The EX65D provides a maximum delay time of 1,024 milliseconds. The dry sound and effected sound (positive or negative phase) can be combined. When two units are used, synchronization of mudulation is possible.

EX70C COMP/GATE

The EX70C is equipped with a compressor that has a maximum compression of 32 dB and easy to use gate functions. There are sync terminals for both functions, so two units can be used for stereo processing.

EX75N NOISE REDUCTION

The EX75N is equipped with an expander which can expand input signals at ratios from 1:1 to 1:8 and a noise reduction function using a low-pass filter to attenuate hissing and other high frequency noise.

EX80E ENHANCER

The EX80E uses a harmonic generator to bring the upper harmonics forward in the mix to give you a brighter and clearer sound. It can also be used to restore the high frequencies that are lost while dubbing or to bring out the details of an instrument or voice whose sound is buried in the overall mix.

EX85P PARAMETRIC EQUALIZER

With the EX85P, equalization is possible for four bands with center frequencies of 40 Hz (LO), 60 Hz ~ 5 kHz (MID LO), 100 Hz ~ 10 kHz (MID HI), and 12 kHz (HI). The levels can easily be varied by ±14 dB (LO and HI) and ±18 dB (MID LO and MID HI).

An Advanced Computer-Assisted MIDI **Compatible Mixing Console**

The challenge of a new recording technology has been met. The MPX820 is an impressive eight channel console that stores all front panel functions including levels, sends, returns, aux inputs, pans, and 3 band EQ into its 99 internal memory locations for instant recall. Program changes can be selected from the front panel, by MIDI signal, foot-switch, or from sync tones on tape. The fade time between two different settings is programmable from 40 miliseconds to 30 seconds allowing you to automate fades, pans, and EQ settings.

Impeccable Audio Performance

The sonic performance of the MPX820 is unmatched by any similar console, programmable or not. Thanks to AKAI's minimum signal path design the audio signal actually passes through fewer op-amp stages than in a traditional mixer.

Operational Ease of Use

Operation of the MPX820 is fast and easy. After all, that should be the goal for every computer-assisted console. Simply set up the front panel settings however you desire, and record the settings in one of the 99 memory locations for later recall.

Maximum Performance Flexibility

The MPX820 is the ideal choice as a mixer for a MIDI based keyboard system or as a programmable mixing console in the recording studio. Several MPX820s can be slaved together through MIDI to effer additional channels of automated mixdown so no task is too large to handle. With the MPX820 you can now perform live mixes on stage which were previously possible only in the studio. And in the studio, you can free your hands up to do more than ever before. However you choose to use the MPX820, it will offer you an exciting new sense of performance flexibility in your music creation.



MPX820 SPECIFICATIONS

Frequency response • 20Hz ~ 20kHz T.H.D. • Less than 0.1% at + 10dBm out S/N EIN • - 128 WTD

S/N EIN • Crosstolk •

-70dB at 7kHz

Inputs (at 0dBm out) • Channels: Mic - 70dBm

Inst - 35 dBm

Line -20dBm Aux 1, 2: Mic - 50dBm

Inst -30dBm

Line - 15dBm

Channel in 0dBm Effect RCV - 5dBm

Max output level ● 20 dBm

Channel EQ . Hi 10kHz ±15dB

Mid $1.5 \, \text{kHz} \pm 15 \, \text{dB}$ Low 100 Hz ± 15 dB

Programmable Features • Fade Time: 40 milliseconds to 30 seconds

Memory: 99 sets of front panel settings Battery backup

Tape interface

MIDI function • Program change

Displays ● Left and Right mains: 12 segment LED ladder − 27dB to +6dB (3dB incr.)
Channels 1-8: 2 segment LED ladder −10dB to +10dB

Feders • 60 mm

Dimensions ● 482.6(W)×310(H)×203(D) mm (EIA Rack mount/7U)

Weight • 10.5kg



A Compact SMPTE Compatible 14 Channel Multitrack Recorder

The MG14D Rack Mountable 14 Track Recorder is a high-performance durable rackmount unit ready to stand up to the rigorous demands of multitrack recording. The MG14D represents a new direction in recording versatility with its compact rackmountable design and SMPTE compatibility. It utilizes the same high quality Super GX multitrack recording head as used in the MG1214 as well as an improved loading mechanism to give you the same professional performance and operational features found on the MG1214. Bar graph meters display the precise signal level on each recording track.

A Versatile Production Tool

The MG14D has 12 audio tracks as well as a sync track and an internal control track. With the use of SMPTE time code it is possible to synchronize your audio and video machines together as well as your MIDI based instruments and sequencers. With SMPTE compatibility the MG14D can be used as a production tool for video, film, and sound effects assembly as well as a tool for creative music production in the recording studio. Combined with the matching ML14 Programmable Auto Locator the capabilities expand into those of a fullfledged professional SMPTE based recording system capable of handling the most demanding work.

An Intelligent Auto Locator for Remote Control of the MG14D

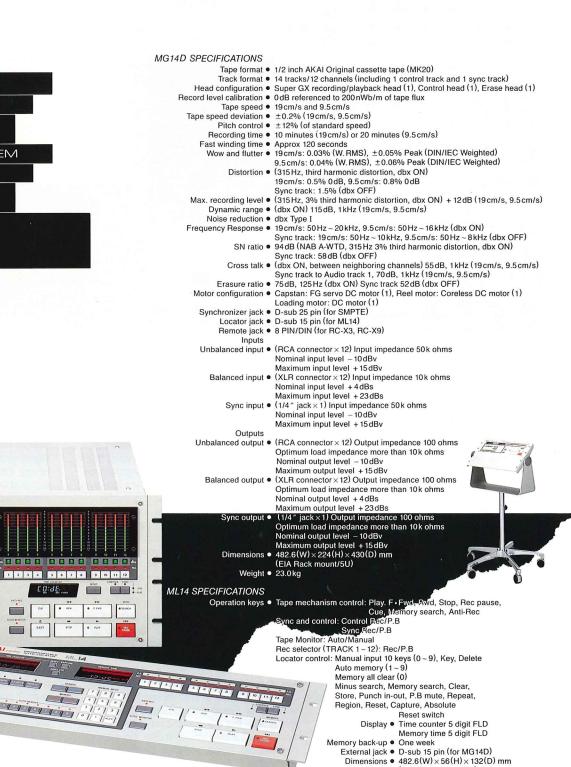
The ML14 represents the state-of-the art in auto locating technology. All transport controls along with record and playback status can be controlled and viewed from the ML14. In addition to providing you with total remote control of the MG14D, it will add an exciting dimension to the operating capabilities. Simple push-button operation of the ML14 Auto Locator's controls yields such sophisticated computer-assisted functions as memory search, punch-in/punch-out, playback mute, repeat, and more. A ten key program pad lets you manually enter values into one of the memories for later recall. The memories in the ML14 will be retained for as long as one week. The momory time and the time count are displayed on a highly visible 5 digit FL display.



ME14D

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(EIA Rack mount/3U)

Weight ● 2.5 kg





MG614 SPECIFICATIONS DECK SECTION

Tape format ● C-cassette CrO₂ tape Track format • 4 track (one way)

Play back channel • 4 channel + sync Recording channel • 4 channel + sync

Head configuration • 4 track recording/play back head (1)
4 track erase head (1)

Motor configuration • Capstan: FG servo DD motor (1)

Reel drive: DC motor (1) Cam drive: DC motor (1)

Track output • Output load impedance: 10k ohms or greater

Maximum output level: +12dBv

Tape speed • 9.5 cm/s, 4.75 cm/s

Pitch control • ±10%

Wow and flutter • 0.04% (peak WTD)

Recording time • 15 minutes (C-60 tape, 9.5 cm/s)

Fast winding time • Approx 90 seconds (C-60)
Frequency response • 9.5cm/s: 30Hz ~ 20kHz, 4.75cm/s: 40Hz ~ 13kHz

Noise reduction • dbx (switchable)
Distortion • 1.0% (1kHz 0VU)

S/N ratio • 60dB (EIAJ), 90dB (EIAJ dbx ON)
Cross talk • 70dB (1kHz, dbx ON)
Erasure ratio • 70dB (1kHz)

MIXER SECTION (0dB = 1V)

Inputs Mic • (1kΩ, balanced XLR×2)

Nominal input level - 67 dBy

Nominal input level – 67 dBv

Maximum input level – 16 dBv

Mic/Line • (100 kg, phone jack × 16)

Nominal input level – 60 dBv – 10 dBv

Maximum input level + 15 dBv

Aux • (22kΩ, phone jack×2) Nominal input level -1

Acc receive • (68kΩ, phone jack×4)

Nominal input level - 10 dBv

Effect receive • (220kΩ, phone jack×2)

Nominal input level – 20dBv

Outputs

Monitor out • (100 Ω, RCA jack × 1) Nominal output level

Track out ● (100Ω, RCA jack×1) Nominal output level

Acc send • (100Ω, phone jack×2)

Nominal output level

Effect send 1 • 2 • (100 Ω, phone jack)
Nominal output level

S/N ratio • Mic: Input to line output 68 dB (IHF)
Line: Input to line output 72 dB (IHF)
Indications • Over load: 20 dB above nominal input level
Parametric EQ • Hi: 800 Hz ~ 10 kHz ± 15 dB

Farainentic EQ • Ni. 200712 - 13048

Low: 40Hz - 1.5kHz ±15dB

Frequency response • Line: 20Hz - 20kHz ±1dB

Mic: 20Hz - 18kHz ±1dB

Distortion • 0.05% (1kHz, nominal level)/Cross talk • 65dB (1kHz)

Dimensions • 470(W) × 157(H) × 556(D) mm/Weight • 14.5 kg

The New Computer-Assisted Personal Multitrack Recording System

The MG614 is a compact, computerassisted 6 Channel/4 Track recording system that sets a new standard in personal creative recording technology. It uses compact CrO2 cassettes and has many of the sophisticated and time-saving convenience features of its big brother the MG1214, including a built-in computerized channel/track selector, and a multi-function auto location system. In addition, an incredibly flexible push-button patching system and track buss allow the MG614 to handle up to a ten channel mix (4 track playback and 6 additional channel inputs) with independent control of every channel.

A Professional Quality Multitrack **Recorder and Computerized Auto Locator**

The MG614 will record up to 4 audio tracks, one of which can be switched to simultaneously record a special sync track. The extra sync track lets you synchronize MIDI instruments and sequencers to a sync signal without tying up precious audio tracks. You can select either the standard 4.75 cm/s tape speed, or the faster 9.5 cm/s speed for extended high frequency response. The use of dbx noise reduction system gives you increased headroom and wider dynamic range for exceptional sound clarity and definition. Audible hiss is virtually eliminated and distortion is incredibly low. In addition, the MG614 has a built-in, multi-function auto locator that allows you to perform multi-point search to cue, search and record, search and play, repeat playback, and much more. There are also special functions for auto monitor during playback, and to rehease punch-in recording. These convenience functions along with the computerized auto location system will assist you to make the recording process faster, simpler, and more enjoyable.

A Powerful 6 Channel Mixing Console and Sophisticated Patching System

The creative possibilities with the MG614's flexible mixing capabilities and versatile signal routing system are absolutely astonishing. Each channel offers input selectors adjustable trim pads, a 2-band parametric sweep type EQ that allows you to select any frequency from 40 Hz to 10 kHz ±15 dB, two independent effect sends (each with a stereo return), pans, buss matrix, and a smooth noise-free fader. There are also two XLR balanced MIC inputs for professional compatibility. Now the creativity starts to flow. The computerized programmable channel/track selector lets any channel be connected to any track input with the simple push of a button. From here, a newly developed switch matrix patch system lets you route signals in almost every conceivable way for monitoring, track bouncing, or mixdown. This marvelously simple pushbutton patch system entirely eliminates the need for a jungle of patch cords allowing you more time to work on creative recording and mixing. The MG614 is the world's first compact cassette multitrack recording system to offer features that are so advanced and operation that is so simple.